CRC

Bose wha: the data is along polynomial. During the polynomial by another, the remains in the CRC checkyller.

Methoratically, an analyt to comment a vertice C lower on Madeshins during closely day a specify golf much do. - Leven is to done wrop being antibally with an enough

For instance suppose M = Q ren R, which is any that

Moderated by So gare a Restrict Q + a resource of Regularly : M = Q + & on M = GQ + R

From they we can see that M-R will be everly drovely by 6: M-R = 6.0 +R-R
M-R = 6.0
M-R = 0 con 0

If in transmit M-R, the necessar and deale by G: 11 is distille evenly we assume them was no other. If since is a number remarkly, there must have been an own.

However, Mr port recoverable from MR values are know R, & ere don't know R water we know M. Threefer we can detect (som) troops norm which but we have I actually troops it to message.

What we would like to do is send both Mand R. The

added R to the signallo B+ once you, if the receiving

As we already com, C will recessarily he should by Gr. E= Man has see to low bits Al set to O, C is equivalent

The traceron tempera checks for come by scangest the traceron warm of C. E. is adjustable by G. It I To Robbert warms a come (E-C), I am more M by Colorery R I describe by Dr.

Or agriculally, they just out off the had W bite.

Note that Ris not the removaling of 5 , it is the hamilian of Man, which is not weekening the same.

Divistor

In this politheadies the peopless of the sine interpol significate lists court be compared in size, become addition and subsectioning the size for instince:

More the point: 1001 - 110 = 1111, so 1001 count oc Less than 1111. On the otherhood, 1111-110 = 1001, so 1111 count on this than 1001.

Tourspre, two realists of the some surface of spilling with come always be distributed one onto the come wif a non-conogurus

$$\frac{1011 \int_{1110}^{1110}}{\frac{-1011}{0101}} \rightarrow \frac{110}{1011} = \frac{1}{2} \text{ rem } 101$$

1100 1011 -> 100 = 1 rea 101

However, a number of fewer sographed bits is always less than one of more significant.

1011 > 101

Thoughte, a newton wif were sig bits develop a motion of

So we do duran just like lay driven, but the substruction is bring enoughles:

10011 1101011011000

0 10011

00 00 10

000101

010100

00 11 10

0 1110 rex

Regard that we don't came when the profined, may the remainder. The a last out the shape but followed down the down specifically in frequent to the remainder to profit and the rest state. At each step, if the remainder to holder with bit is note some specified output (by how the one multings specified bits). Then the drovent will go in one of electronic section of specified by the down of submitting the drovent or some or consider. One of their hand, if the remainder higher that a lower the offernation to be offered to the section of the se

Then, edden way, we shift The rest 57 Ann the disched with the

Mr. it the devive is G + has Wagnihar bits, the devoter of an army of 5th M, I The throwards is B, we have

Theis the beare strongly forward alwarm algorithm. Reading for CRC we was no shift Mup by W with before along two drawns.

Consider What hopping is an process 2 bing the warge. If owe remember region coverently liety like:

[and as as [as as (way a Shi poly in)

When we're rear for the new message bit, Mi, any will determine whether or not see XOR or mo the registers.

+ (ay + | 291 | 20 | 20 | 20 | 20 |

| a3+(a,g+) | a2+(a,g2) | a,+(a,g2) | a0+(a,g1) | m1+(a1g0)

we'll collabore by volves: [by] bo] bo] b.] bo

We the part bit, of will be log = az + (engly) when determine whom or my se XOR:

+ (by x | 3y | 192 | 92 | 92 | 92 |)

Notice that Co = Mi+1 + (bygo) = Mi+1 + ((a2 + (a1gy))go)

cohile: C,= bo + (by g,)
= m; + (9496) + ((a2+(a494))g.)

Confirm: Co= b, + (bigs)
= 90 + (a,g,) + ((a,+(a,g,+))gs)

C4 = p3 + (p2) + ((e2 (p2))34)

So you can see now start after shifting in 2 marge late, each of our field to white is of the forms

where No is Min , x , is min , + xj = Cj = for 25/59 + note that go (well for Co) is sniply 0.

This can be further "supplied" as Ci = X; + Ti

when T; is only disputed on g and an one inp tembling a (antan).

Read yest is a fusion of of any as + g (ad + g). For here we are presented of for the possible where of an + as, for a year of acce in the stall, all we need to the a shift own ton airs of meson on R from the roll of Kor. A with Taylory, g).

A now say to some this is Ty (a, 0) which where Ta a four allow tooks of whice the year XXRX into the register, our true within the solution of the property of law in a fine of

The renum Ty is disposed on a lite to weeker we looked as Softwar is very post to be before 1989 a vertice from Ty. If in had shifted in them to know his land with the 108, "som he would have the lite off the very time of and applied the 108 where we well to the time to each

1 | 00 | mc | mc | more,

To (a4,03,02)

du do de do do

To can be made in yourse I of sit, To in, S the call of course those 25 course in a course to the some some a the polyments of The byson S, the friend you can placed to (S bits and alone), but the bosson in while a. That strend you need about the bosson in while a.

The class for 5 is that Someon decidably as story for a figure of your figures than the state of the state of the figures of the state of the state

Campilyon the table

Note that see by theorems the previous alleghans that the the the coding $T_{ij}(x)$ is what glanged if you hard the top S lits of the Treasurable register with X and follows that by the Argeston with S and follows $T_{ij}(x)$ and $T_{ij}(x)$ and

Table Modelfration

Beend and before employ the checkman we read as expensed at fair to see minings. This is effectabled for better on some but big that me all O at the art of the extense control was a second of the extense of the exten

I wrong your so are some in discours in a faller lossed information, shifting in X fire has the affect that the top K him absorbed in the require will produce at some X fire to the shift of the sound of the top the sound of th

The this are (in fact De), his his part of all of one his or the registrate that me shifted and and produce the whole that a Kill of the law of the color on his factor of the second of the second of the color on his factor of the color of

In otherwoods, the propose of singless in the family to other to be forced the lost 10 mergy. It add the any Margin are register to by so add the sy through the Marginian.

What the means is that measure him proven which meet his term the tregisting their only propose is no common termination and the personal of the personal of the personal of the termination of termination

So we are modify the algorithm i that if shally dollar acts the register only to have it World with some velocity. Here shall not so so so so just the shall not so so so you can just the the nest S bit of the meanage with the top S had from the training the stage one shall no solve from Ta.

So it used to bulk life this:



Now it looks like this:



And mitted any, recognised the is precessed by the algorithm temperation to the study of beliefly to an electronic through the energy story to on came ship the french to O'l him. Then the only point of the Chine, is himself in our law to the total story, is himself in our law to the total story, is himself in our law to the story, is himself in our law to the story, in the story in the story in the story.

Invital Values

The solic is the last section that as meaning by the last of many the hope of the majoritor Contra shought found about the fact to the by deliting about street to pay in a 2000 to the solic before the solic the solic by the so

But in John docume what is supposed to happen suffere the main man't top of the region. This is the proof White of the algorithm.

The success or the range who can the result broken of the regions.

For the prince gold prompted also sum interpretations of CRES.

For region is written by the late prince as the first belief of principle with anterior late of the belief of principle with anterior with a successful and any late of the principle with the region of the forth of the days of the principle with the region of the forth of make the region of the forth of the region of the forth of the region of the court of the court, gotten prompt of the gold of the principle with the principle of the court.

forming in right and applications, you reason after the first beautiful sof our more than or the first sound to first our south and not the first our south and not the first our first our south and the first our formation or so in a case before we can electronic. It was to give an electronic for the total of the control of the control

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Conversing welfixed to allowed it can be a written of fewling the substance or multiplier through the shoot found adjustition at Living load the substance through what are substanced the law, while and last at a stan, in 1888, in only in consumer largesters, when it is the children when it is a largest to the children when it is a largest to the children with a 1.

This of course is just alcalety one CRC of the holized value